



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

NOV 19 2018

CERTIFIED MAIL 7004 1160 0003 0358 5375 RETURN RECEIPT REQUESTED

Ms. Christina Perez
EHS Manager
TM Corpus Christi Services L.P.
P.O. Box 1914
Deer Park, TX 77536

RE: TM Corpus Christi Services L.P. (TMCC)
Petition Reissuance Final Approval Decision for WDW-70

Dear Ms. Perez,

The land disposal restrictions prohibit the injection of hazardous waste unless a petitioner can demonstrate to EPA, to a reasonable degree of certainty, that there will be no migration of hazardous constituents from the injection zone for as long as the wastes remain hazardous. The land disposal restrictions for injection wells codified in 40 CFR Part 148 provide the standards and procedures by which petitions to dispose of an otherwise prohibited waste by injection will be reviewed and by which exemptions pursuant to these petitions will be granted or denied. Part 148 also provides for the reissuance of an exemption if the reissuance complies with the above-mentioned standards.

A letter dated August 21, 2018, informed TMCC that EPA was proposing to approve its petition reissuance request for an exemption to the land disposal restrictions. The public comment period associated with this decision began on August 28, 2018, and closed on October 15, 2018, and no comments were received.

Based on a detailed technical review of the petition reissuance request and support documents, EPA has determined that this information for the TMCC site meets the requirements of 40 CFR Part 148 by demonstrating that, to a reasonable degree of certainty, there will be no migration of hazardous constituents from the injection zone for 10,000 years.

The following are conditions of this land disposal restrictions exemption.

Petition Reissuance Final Approval Conditions

This final approval of a petition for reissuance of an exemption to allow the injection of restricted hazardous wastes is subject to the following conditions, which are necessary to assure that the standard in 40 CFR § 148.20 (a) is met. Noncompliance with any of these conditions is grounds for termination of the exemption in accordance with 40 CFR § 148.24(a)(1). This exemption is applicable to the TMCC injection well WDW-70, located at the Corpus Christi, Texas facility.

1. Injection of restricted waste shall be limited to the following Injection Interval ranging in depth from 4,525 feet to 4,722 feet KB within an Injection Zone ranging from 3,470 feet to 4,722 feet KB.
(WDW-70 depths are referenced to Kelly Bushing (KB) depths which is 12 feet above Ground Level and 38 feet above Mean Sea Level on WDW-70's Schlumberger Induction Electrical Log dated 8/28/70)
2. The monthly volume injected during any given month shall not exceed that calculated as follows:
$$(150 \text{ gpm})(1440 \text{ minutes/day})(\# \text{ of days in the month})$$
3. The facility shall cease injection by December 31, 2028.
4. The characteristics of the injected waste stream shall always conform to those characteristics as presented in text, tables and figures included in Sections 5.0 and 6.0 of the 2011 petition reissuance request. The specific gravity of the injected waste stream shall remain within a range from 0.95-1.30 measured at 68°F (surface conditions) with a reference temperature of 68°F.
5. The approval for injection is limited to the following hazardous wastes:

D001 – D043

F001 – F012, F019 – F028, F032, F034, F035, F037 – F039 (for constituents listed in Table 5-1)

K001 – K011, K013 – K052, K060 – K062, K069, K071, K073, K083 – K088, K093 – K118, K123 – K126, K131, K132, K136, K141 – K145, K147 – K151, K156 – K159, K161, K169 – K172, K174 – K178, K181

P001 – P018, P020 – P024, P026 – P031, P033, P034, P036 – P051, P054, P056 – P060, P062 – P078, P081, P082, P084, P085, P087 – P089, P092 – P099, P101 – P106, P108 – P116, P118 – P123, P127, P128, P185, P188 – P192, P194, P196 – P199, P201 – P205

U001 – U012, U014 – U039, U041 – U053, U055 – U064, U066 – U099, U101 – U103, U105 – U138, U140 – U174, U176 – U194, U196, U197, U200, U201, U203 – U211, U213 – U223, U225 – U228, U234 – U240, U243, U244, U246 – U249, U271, U278 – U280, U328, U353, U359, U364, U367, U372, U373, U387, U389, U394, U395, U404, U409 – U411
6. TMCC must petition for approval to inject additional hazardous wastes which are not included in Condition No. 5 above. TMCC must also petition for approval to increase the concentration of any waste which would necessitate the recalculation of the limiting concentration reduction factor and the extent of the waste plume. Petition modifications and reissuance should be made pursuant to 40 CFR § 148.20 (e) or (f).
7. TMCC shall annually submit to EPA the results of an annual report containing the results of a falloff test for WDW-70. This test shall have been performed after shutting in the well for a

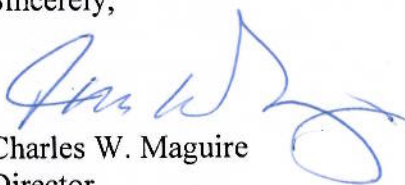
period of time sufficient to allow the pressure in the injection interval to reach equilibrium, in accordance with 40 CFR § 146.68 (e)(1). The annual report should include a comparison of reservoir parameters determined from the falloff test with parameters used in the approved no migration petition. This should include a comparison of the current year's test results for the static and flowing bottomhole pressures with the values demonstrated in the approved petition reissuance and a comparison of the test results for transmissibility [Kh/μ (mD-ft/cP)] with the transmissibilities used in the approved petition reissuance demonstration for the pressure buildup and 10,000 year plume modeling.

8. TMCC shall also annually submit to EPA a radioactive tracer survey and annulus pressure test for WDW-70.
9. TMCC shall notify EPA if WDW-70 loses mechanical integrity, prior to any well work on WDW-70, or if TMCC plans to plug WDW-70. If any well work or plugging is being planned, TMCC shall also submit the procedures to EPA for review prior to commencing any work.
10. Upon the expiration, cancellation, reissuance, or modification of the Texas Commission on Environmental Quality's Underground Injection Control permit for Well No. WDW-70, this exemption is subject to review. A new demonstration may be required if information shows that the basis of granting the exemption is no longer valid under 40 CFR § 148.23 and § 148.24.

In addition to the above conditions, this final approval of a petition for reissuance of an exemption is contingent on the validity of the information submitted in the TMCC petition reissuance request for any exemption to the land disposal restrictions. This final reissuance decision is subject to termination when any of the conditions occur which are listed in 40 § 148.24, including noncompliance, misrepresentation of relevant facts, or a determination that new information shows that the basis for approval is no longer valid.

If you have any questions or comments, please call Brian Graves at (214) 665-7193 or email him at graves.brian@epa.gov.

Sincerely,



Charles W. Maguire
Director
Water Division

ecc: Mr. Frank Harris, TMCC
Ms. Lorrie Council, TCEQ
Mr. Rich Heitzenrater, TCEQ

